OIPE

RAW SEQUENCE LISTING   DATE: 09/10/2001
PATENT APPLICATION: US/09/813,290   TIME: 11:11:54

          Input Set : A:\LEX-0151-USA SEQLIST.txt
          Output Set: N:\CRF3\09102001\I813290.raw

     4 <110> APPLICANT: Walke, D. Wade
     5   Wilganowski, Nathaniel L.
     6   Turner, C. Alexander Jr.
     7   Hilbun, Erin
     8   Wang, Xiaoming
     9   Donoho, Gregory
    10   Scoville, John

ENTERED

    12 <120> TITLE OF INVENTION: Novel Human Secreted Proteins and Polynucleotides Encoding
the Same
    14 <130> FILE REFERENCE: LEX-0151-USA
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/813,290
C--> 16 <141> CURRENT FILING DATE: 2001-03-20
    16 <150> PRIOR APPLICATION NUMBER: US 60/190,638
    17 <151> PRIOR FILING DATE: 2000-03-20
    19 <150> PRIOR APPLICATION NUMBER: US 60/191,188
    20 <151> PRIOR FILING DATE: 2000-03-22
    22 <150> PRIOR APPLICATION NUMBER: US 60/193,639
    23 <151> PRIOR FILING DATE: 2000-03-31
    25 <160> NUMBER OF SEQ ID NOS: 10
    27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    29 <210> SEQ ID NO: 1
    30 <211> LENGTH: 2628
    31 <212> TYPE: DNA
    32 <213> ORGANISM: homo sapiens
    34 <400> SEQUENCE: 1
    35 atggcctgtg ccctagctgg gaaggtcttc ccaatgggga gctggccagt gtggcacaaa   60
    36 agcctgcact gggccaacaa ggtggaagga gaagcggcag gtggacggca aggccccagc   120
    37 ctccttctct cctccgcccc tcttcccgcc caggactggg tggagccact gccttataag   180
    38 tggtggcctg gtggcagcag agcaaactac aaccggcggc cagcgggacc agagggcggc   240
    39 tctgcaggca ggcggcagcg gtgccctcag ttccccagca tggccccctc ggcctgggcc   300
    40 atttgctggc tgctaggggg cctcctgctc catggggta gctctggccc cagccccggc   360
    41 cccagtgtgc cccgcctgcg gctctcctac cgagacctcc tgtctgccaa ccgctctgcc   420
    42 atctttctgg ccccccaggg ctccctgaac ctccaggcca tgtacctaga tgagtaccga   480
    43 gaccgcctct ttctgggtgg cctggacgcc ctctactctc tgcggctgga ccaggcatgg   540
    44 ccagatcccc gggaggtcct gtggccaccg cagccaggac agagggagga gtgtgttcga   600
    45 aagggaagag atcctttgac agagtgcgcc aacttcgtgc gggtgctaca gcctcacaac   660
    46 cggacccacc tgctagcctg tggcactggg gccttccagc ccacctgtgc cctcatcaca   720
    47 gttggccacc gtggggagca tgtgctccac ctggagcctg gcagtgtgga aagtggccgg   780
    48 gggcggtgcc ctcacgagcc cagccgtccc tttgccagca ccttcataga cggggagctg   840
    49 tacacgggtc tcactgctga cttcctgggg cgagaggcca tgatcttccg aagtggaggt   900
    50 cctcggccag ctctgcgttc cgactctgac cagagtctct tgcacgaccc ccggtttgtg   960
    51 atggccgccc ggatccctga gaactctgac caggacaatg acaaggtgta cttcttcttc 1020
    52 tcggagacgg tcccctcgcc cgatggtggc tcgaaccatg tcactgtcag ccgcgtgggc 1080
    53 cgcgtctgcg tgaatgatgc tggggggccag cgggtgctgg tgaacaaatg gagcactttc 1140
    54 ctcaaggcca ggctggtctg ctcggtgccc ggccctggtg gtgccgagac ccactttgac 1200
    55 cagctagagg atgtgttcct gctgtggccc aaggccggga agagcctcga ggtgtacgcg 1260
    56 ctgttcagca ccgtcagtgc cgtgttccag ggcttcgccg tctgtgtgta ccacatggca 1320
    57 gacatctggg aggttttcaa cgggcccttt gcccaccgag atgggcctca gcaccagtgg 1380

```
58 gggccctatg ggggcaaggt gcccttccct cgccctggcg tgtgccccag caagatgacc     1440
59 gcacagccag gacggccttt tggcagcacc aaggactacc cagatgaggt gctgcagttt     1500
60 gcccgagccc acccctcat gttctggcct gtgcggcctc gacatggccg ccctgtcctt      1560
61 gtcaagaccc acctggccca gcagctacac cagatcgtgg tggaccgcgt ggaggcagag     1620
62 gatgggacct acgatgtcat tttcctgggg actgactcag ggtctgtgct caaagtcatc     1680
63 gctctccagg caggggctc agctgaacct gaggaagtgg ttctggagga gctccaggtg      1740
64 tttaaggtgc caacacctat caccgaaatg gagatctctg tcaaaaggca aatgctatac     1800
65 gtgggctctc ggctgggtgt ggcccagctg cggctgcacc aatgtgagac ttacggcact     1860
66 gcctgtgcag agtgctgcct ggcccgggac ccatactgtg cctgggatgg tgcctcctgt     1920
67 acccactacc gccccagcct tggcaagcgc cggttccgcc ggcaggacat ccggcacggc     1980
68 aaccctgccc tgcagtgcct gggccagagc caggaagaag aggcagtggg acttgtggca     2040
69 gccaccatgg tctacggcac ggagcacaat agcaccttcc tggagtgcct gcccaagtct     2100
70 ccccargctg ctgtgcgctg gctcttgcag aggccagggg atgaggggcc tgaccaggtg     2160
71 aagacggacg agcgagtctt gcacacggag cggggggctgc tgttccgcag gcttagccgt     2220
72 ttcgatgcgg gcacctacac ctgcaccact ctggagcatg gcttctccca gactgtggtc     2280
73 cgcctggctc tggtggtgat tgtggcctca cagctggaca acctgttccc tccggagcca     2340
74 aagccagagg agcccccagc ccggggggaggc ctggcttcca ccccacccaa ggcctggtac     2400
75 aaggacatcc tgcagctcat tggcttcgcc aacctgcccc gggtggatga gtactgtgag     2460
76 cgcgtgtggt gcaggggcac cacggaatgc tcaggctgct tccggagccg gagccggggc     2520
77 aagcaggcca ggggcaagag ctgggcaggg ctggagctag caagaagat gaagagccgg      2580
78 gtgcatgccg agcacaatcg gacgccccgg gaggtggagg ccacgtag                  2628
80 <210> SEQ ID NO: 2
81 <211> LENGTH: 875
82 <212> TYPE: PRT
83 <213> ORGANISM: homo sapiens
85 <400> SEQUENCE: 2
86 Met Ala Cys Ala Leu Ala Gly Lys Val Phe Pro Met Gly Ser Trp Pro
87  1               5                  10                  15
88 Val Trp His Lys Ser Leu His Trp Ala Asn Lys Val Glu Gly Glu Ala
89              20                  25                  30
90 Ala Gly Gly Arg Gln Gly Pro Ser Leu Leu Leu Ser Ser Ala Pro Leu
91          35                  40                  45
92 Pro Ala Gln Asp Trp Val Glu Pro Leu Pro Tyr Lys Trp Trp Pro Gly
93      50                  55                  60
94 Gly Ser Arg Ala Asn Tyr Asn Arg Arg Pro Ala Gly Pro Glu Gly Gly
95 65               70                  75                  80
96 Ser Ala Gly Arg Arg Gln Arg Cys Pro Gln Phe Pro Ser Met Ala Pro
97              85                  90                  95
98 Ser Ala Trp Ala Ile Cys Trp Leu Leu Gly Gly Leu Leu Leu His Gly
99              100                 105                 110
100 Gly Ser Ser Gly Pro Ser Pro Gly Pro Ser Val Pro Arg Leu Arg Leu
101             115                 120                 125
102 Ser Tyr Arg Asp Leu Leu Ser Ala Asn Arg Ser Ala Ile Phe Leu Gly
103     130                 135                 140
104 Pro Gln Gly Ser Leu Asn Leu Gln Ala Met Tyr Leu Asp Glu Tyr Arg
105 145                 150                 155                 160
106 Asp Arg Leu Phe Leu Gly Gly Leu Asp Ala Leu Tyr Ser Leu Arg Leu
107             165                 170                 175
108 Asp Gln Ala Trp Pro Asp Pro Arg Glu Val Leu Trp Pro Pro Gln Pro
```

RAW SEQUENCE LISTING   DATE: 09/10/2001
PATENT APPLICATION: US/09/813,290   TIME: 11:11:54

Input Set : A:\LEX-0151-USA SEQLIST.txt
Output Set: N:\CRF3\09102001\I813290.raw

```
109                  180                  185                  190
110 Gly Gln Arg Glu Glu Cys Val Arg Lys Gly Arg Asp Pro Leu Thr Glu
111           195                  200                  205
112 Cys Ala Asn Phe Val Arg Val Leu Gln Pro His Asn Arg Thr His Leu
113       210                  215                  220
114 Leu Ala Cys Gly Thr Gly Ala Phe Gln Pro Thr Cys Ala Leu Ile Thr
115 225                  230                  235                  240
116 Val Gly His Arg Gly Glu His Val Leu His Leu Glu Pro Gly Ser Val
117                  245                  250                  255
118 Glu Ser Gly Arg Gly Arg Cys Pro His Glu Pro Ser Arg Pro Phe Ala
119           260                  265                  270
120 Ser Thr Phe Ile Asp Gly Glu Leu Tyr Thr Gly Leu Thr Ala Asp Phe
121           275                  280                  285
122 Leu Gly Arg Glu Ala Met Ile Phe Arg Ser Gly Gly Pro Arg Pro Ala
123       290                  295                  300
124 Leu Arg Ser Asp Ser Asp Gln Ser Leu Leu His Asp Pro Arg Phe Val
125 305                  310                  315                  320
126 Met Ala Ala Arg Ile Pro Glu Asn Ser Asp Gln Asp Asn Asp Lys Val
127                  325                  330                  335
128 Tyr Phe Phe Phe Ser Glu Thr Val Pro Ser Pro Asp Gly Gly Ser Asn
129           340                  345                  350
130 His Val Thr Val Ser Arg Val Gly Arg Val Cys Val Asn Asp Ala Gly
131       355                  360                  365
132 Gly Gln Arg Val Leu Val Asn Lys Trp Ser Thr Phe Leu Lys Ala Arg
133       370                  375                  380
134 Leu Val Cys Ser Val Pro Gly Pro Gly Gly Ala Glu Thr His Phe Asp
135 385                  390                  395                  400
136 Gln Leu Glu Asp Val Phe Leu Leu Trp Pro Lys Ala Gly Lys Ser Leu
137           405                  410                  415
138 Glu Val Tyr Ala Leu Phe Ser Thr Val Ser Ala Val Phe Gln Gly Phe
139           420                  425                  430
140 Ala Val Cys Val Tyr His Met Ala Asp Ile Trp Glu Val Phe Asn Gly
141       435                  440                  445
142 Pro Phe Ala His Arg Asp Gly Pro Gln His Gln Trp Gly Pro Tyr Gly
143       450                  455                  460
144 Gly Lys Val Pro Phe Pro Arg Pro Gly Val Cys Pro Ser Lys Met Thr
145 465                  470                  475                  480
146 Ala Gln Pro Gly Arg Pro Phe Gly Ser Thr Lys Asp Tyr Pro Asp Glu
147                  485                  490                  495
148 Val Leu Gln Phe Ala Arg Ala His Pro Leu Met Phe Trp Pro Val Arg
149           500                  505                  510
150 Pro Arg His Gly Arg Pro Val Leu Val Lys Thr His Leu Ala Gln Gln
151           515                  520                  525
152 Leu His Gln Ile Val Val Asp Arg Val Glu Ala Glu Asp Gly Thr Tyr
153       530                  535                  540
154 Asp Val Ile Phe Leu Gly Thr Asp Ser Gly Ser Val Leu Lys Val Ile
155 545                  550                  555                  560
156 Ala Leu Gln Ala Gly Gly Ser Ala Glu Pro Glu Glu Val Val Leu Glu
157           565                  570                  575
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/813,290

DATE: 09/10/2001
TIME: 11:11:54

Input Set : A:\LEX-0151-USA SEQLIST.txt
Output Set: N:\CRF3\09102001\I813290.raw

```
158 Glu Leu Gln Val Phe Lys Val Pro Thr Pro Ile Thr Glu Met Glu Ile
159             580             585             590
160 Ser Val Lys Arg Gln Met Leu Tyr Val Gly Ser Arg Leu Gly Val Ala
161         595             600             605
162 Gln Leu Arg Leu His Gln Cys Glu Thr Tyr Gly Thr Ala Cys Ala Glu
163     610             615             620
164 Cys Cys Leu Ala Arg Asp Pro Tyr Cys Ala Trp Asp Gly Ala Ser Cys
165 625             630             635             640
166 Thr His Tyr Arg Pro Ser Leu Gly Lys Arg Arg Phe Arg Arg Gln Asp
167             645             650             655
168 Ile Arg His Gly Asn Pro Ala Leu Gln Cys Leu Gly Gln Ser Gln Glu
169             660             665             670
170 Glu Glu Ala Val Gly Leu Val Ala Ala Thr Met Val Tyr Gly Thr Glu
171         675             680             685
172 His Asn Ser Thr Phe Leu Glu Cys Leu Pro Lys Ser Pro Gln Ala Ala
173     690             695             700
174 Val Arg Trp Leu Leu Gln Arg Pro Gly Asp Glu Gly Pro Asp Gln Val
175 705             710             715             720
176 Lys Thr Asp Glu Arg Val Leu His Thr Glu Arg Gly Leu Leu Phe Arg
177             725             730             735
178 Arg Leu Ser Arg Phe Asp Ala Gly Thr Tyr Thr Cys Thr Thr Leu Glu
179             740             745             750
180 His Gly Phe Ser Gln Thr Val Val Arg Leu Ala Leu Val Val Ile Val
181         755             760             765
182 Ala Ser Gln Leu Asp Asn Leu Phe Pro Pro Glu Pro Lys Pro Glu Glu
183     770             775             780
184 Pro Pro Ala Arg Gly Gly Leu Ala Ser Thr Pro Pro Lys Ala Trp Tyr
185 785             790             795             800
186 Lys Asp Ile Leu Gln Leu Ile Gly Phe Ala Asn Leu Pro Arg Val Asp
187             805             810             815
188 Glu Tyr Cys Glu Arg Val Trp Cys Arg Gly Thr Thr Glu Cys Ser Gly
189     820             825             830
190 Cys Phe Arg Ser Arg Ser Arg Gly Lys Gln Ala Arg Gly Lys Ser Trp
191         835             840             845
192 Ala Gly Leu Glu Leu Gly Lys Lys Met Lys Ser Arg Val His Ala Glu
193     850             855             860
194 His Asn Arg Thr Pro Arg Glu Val Glu Ala Thr
195 865             870             875
197 <210> SEQ ID NO: 3
198 <211> LENGTH: 2349
199 <212> TYPE: DNA
200 <213> ORGANISM: homo sapiens
202 <400> SEQUENCE: 3
203 atggcccccct cggcctgggc catttgctgg ctgctagggg gcctcctgct ccatgggggt      60
204 agctctggcc ccagccccgg ccccagtgtg ccccgcctgc ggctctccta ccgagacctc     120
205 ctgtctgcca accgctctgc catctttctg ggcccccagg gctccctgaa cctccaggcc     180
206 atgtacctag atgagtaccg agaccgcctc tttctggggtg gcctggacgc cctctactct     240
207 ctgcggctgg accaggcatg gccagatccc cgggaggtcc tgtggccacc gcagccagga     300
208 cagagggagg agtgtgttcg aaagggaaga gatcctttga cagagtgcgc caacttcgtg     360
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/813,290

DATE: 09/10/2001
TIME: 11:11:54

Input Set : A:\LEX-0151-USA SEQLIST.txt
Output Set: N:\CRF3\09102001\I813290.raw

```
209 cgggtgctac agcctcacaa ccggacccac ctgctagcct gtggcactgg ggccttccag       420
210 cccacctgtg ccctcatcac agttggccac cgtggggagc atgtgctcca cctggagcct       480
211 ggcagtgtgg aaagtggccg ggggcggtgc cctcacgagc ccagccgtcc ctttgccagc       540
212 accttcatag acggggagct gtacacgggt ctcactgctg acttcctggg gcgagaggcc       600
213 atgatcttcc gaagtggagg tcctcggcca gctctgcgtt ccgactctga ccagagtctc       660
214 ttgcacgacc cccggtttgt gatggccgcc cggatccctg agaactctga ccaggacaat       720
215 gacaaggtgt acttcttctt ctcggagacg gtccctctcgc ccgatggtgg ctcgaaccat       780
216 gtcactgtca gccgcgtggg ccgcgtctgc gtgaatgatg ctgggggcca gcgggtgctg       840
217 gtgaacaaat ggagcacttt cctcaaggcc aggctggtct gctcggtgcc cggccctggt       900
218 ggtgccgaga cccactttga ccagctagag gatgtgttcc tgctgtggcc caaggccggg       960
219 aagagcctcg aggtgtacgc gctgttcagc accgtcagtg ccgtgttcca gggcttcgcc      1020
220 gtctgtgtgt accacatggc agacatctgg gaggtttttca acgggccctt tgcccaccga      1080
221 gatgggcctc agcaccagtg ggggccctat gggggcaagg tgcccttccc tcgccctggc      1140
222 gtgtgcccca gcaagatgac cgcacagcca ggacggcctt ttggcagcac caaggactac      1200
223 ccagatgagg tgctgcagtt tgcccgagcc caccccctca tgttctggcc tgtgcggcct      1260
224 cgacatggcc gccctgtcct tgtcaagacc cacctggccc agcagctaca ccagatcgtg      1320
225 gtggaccgcg tggaggcaga ggatgggacc tacgatgtca ttttcctggg gactgactca      1380
226 gggtctgtgc tcaaagtcat cgctctccag gcagggggct cagctgaacc tgaggaagtg      1440
227 gttctggagg agctccaggt gtttaaggtg ccaacaccta tcaccgaaat ggagatctct      1500
228 gtcaaaaggc aaatgctata cgtgggctct cggctgggtg tggcccagct gcggctgcac      1560
229 caatgtgaga cttacggcac tgcctgtgca gagtgctgcc tggcccggga cccatactgt      1620
230 gcctgggatg gtgcctcctg tacccactac cgccccagcc ttggcaagcg ccggttccgc      1680
231 cggcaggaca tccggcacgg caaccctgcc ctgcagtgcc tgggccagag ccaggaagaa      1740
232 gaggcagtgg gacttgtggc agccaccatg gtctacggca cggagcacaa tagcaccttc      1800
233 ctggagtgcc tgcccaagtc tccccargct gctgtgcgct ggctcttgca gaggccaggg      1860
234 gatgaggggc ctgaccaggt gaagacggac gagcgagtct tgcacacgga gcgggggctg      1920
235 ctgttccgca ggcttagccg tttcgatgcg ggcacctaca cctgcaccac tctggagcat      1980
236 ggcttctccc agactgtggt ccgcctggct ctggtggtga ttgtggcctc acagctggac      2040
237 aacctgttcc ctccggagcc aaagccagag gagcccccag cccgggggagg cctggcttcc      2100
238 accccaccca aggcctggta caaggacatc ctgcagctca ttggcttcgc caacctgccc      2160
239 cgggtggatg agtactgtga gcgcgtgtgg tgcagggggca ccacggaatg ctcaggctgc      2220
240 ttccggagcc ggagccgggg caagcaggcc aggggcaaga ctgggcagg gctggagcta      2280
241 ggcaagaaga tgaagagccg ggtgcatgcc gagcacaatc ggacgccccg ggaggtggag      2340
242 gccacgtag                                                             2349
244 <210> SEQ ID NO: 4
245 <211> LENGTH: 782
246 <212> TYPE: PRT
247 <213> ORGANISM: homo sapiens
249 <400> SEQUENCE: 4
250 Met Ala Pro Ser Ala Trp Ala Ile Cys Trp Leu Leu Gly Gly Leu Leu
251 1               5                   10                  15
252 Leu His Gly Gly Ser Ser Gly Pro Ser Pro Gly Pro Ser Val Pro Arg
253             20                  25                  30
254 Leu Arg Leu Ser Tyr Arg Asp Leu Leu Ser Ala Asn Arg Ser Ala Ile
255         35                  40                  45
256 Phe Leu Gly Pro Gln Gly Ser Leu Asn Leu Gln Ala Met Tyr Leu Asp
257     50                  55                  60
258 Glu Tyr Arg Asp Arg Leu Phe Leu Gly Gly Leu Asp Ala Leu Tyr Ser
259 65                  70                  75                  80
```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/813,290**   DATE: 09/10/2001
                                                 TIME: 11:11:55

Input Set : **A:\LEX-0151-USA SEQLIST.txt**
Output Set: **N:\CRF3\09102001\I813290.raw**

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7